

21

~~41.~~ A system as set forth in claim 1 wherein the second set of data is an indication of a forward, neutral or reverse direction of movement by the vehicle during the haul cycles.

23

~~42.~~ A system as set forth in claim 1 wherein the second set of data is an indication of a relative elapsed time for each event of loading or unloading detected by the first means.

22

21

~~43.~~ A system as set forth in claim ~~41~~ including:
a third means for providing an indication of a relative elapsed time between events of the haul cycle; and
the electronic processor being responsive to the third means as well as the first and second means for incorporating into the third set of data the indications of the events of loading or unloading of material, the events of forward, neutral or reverse direction of movement by the vehicle and the indication of the relative elapsed time between these events.

24

~~44.~~ A system as set forth in claim 1 wherein the second set of data is an indication of a geographic location of the vehicle.

34

32

~~45.~~ The system as set forth in claim ~~27~~ including a third means mounted to the vehicle for downloading the third set of data to a remote site.

25

~~46.~~ A system as set forth in claim 1 wherein each haul cycle includes a plurality of load sites.

27

~~47.~~ A system as set forth in claim 1 wherein each haul cycle includes a plurality of dump sites.

26

~~48.~~ A system as set forth in claim ~~46~~ wherein the haulage vehicle is a refuse vehicle, the second means is a means on-board the vehicle for interrogating a device mounted to a refuse container and, thereby, identifying the container.

28

~~49.~~ A system as set forth in claim 1 wherein each haul cycle includes only a single load site.

30

~~50.~~ A system as set forth in claim 1 wherein each haul cycle includes only a single dump site.

29

28

~~51.~~ A system as set forth in claim ~~49~~ wherein the haulage vehicle is an off-road vehicle having a pivotable dump body.

52. A system for identifying loading locations of a vehicle and assembling data related to the performance of the vehicle in coordination with each such loading location, the system comprising:

a device at each loading location providing a unique code;

means on-board the vehicle for interrogating the device and retrieving the unique code in conjunction with the loading of the vehicle such that the code is successfully retrieved only when a load is added to the vehicle;

a weighing device for sensing the weight of the load carried by the vehicle and generating weight data indicative thereof; and

an electronic processor on-board the vehicle for collecting the weight data and the unique code and correlating the weight data with the unique code and means for compiling a historical record of successively collected and correlated weight data and unique codes for use in evaluating the performance of the vehicle.

53. A system as set forth in claim 52, comprising an electronic device for downloading the correlated data and codes to a central station.

54. A system as set forth in claim 53 wherein the central station includes an electronic processor responsive to the historical record for generating command signals supplied to the vehicle by way of the electronic device, where the command signals provide routing information to the vehicle operator.

55. A system as set forth in claim 53 wherein the electronic device is a transceiver on-board the vehicle.

56. A system as set forth in claim 53 wherein the electronic processor for compiling a historical record is incorporated into the central station.

57. A system as set forth in claim 52 wherein the vehicle is a refuse vehicle and the device is associated with a refuse container at each loading location.

58. A system as set forth in claim 52 wherein the device providing a unique code is a passive device.

59. A system as set forth in claim 52 wherein the device providing the unique code is a radio frequency transponder.

60. A system as claimed in claim 52 wherein the electronic processor on-board the vehicle for collecting the weight data and the unique code includes means responsive to the weight data for determining the distribution of the weight between front and rear axles of the vehicle.

61. A system as set forth in claim 60, comprising a display on-board the vehicle for indicating the relative distribution of the weight of the load carried by the vehicle between the front and rear axles of the vehicle.

62. A system as set forth in claim 54 wherein the electronic device is a transceiver for receiving the command signals from the central station and the system includes a display on-board the vehicle for prompting the operator of the vehicle with routing instructions in accordance with the command signals.

63. A system as set forth in claim 8 wherein the third means is a transceiver for receiving command signals from the remote site for routing the vehicle and the remote site includes a processor responsive to the historical record for generating the command signals and the system includes a display on-board the vehicle for prompting the operator of the vehicle with routing instructions in accordance with the command signals.

64. A system for identifying loading locations of a vehicle and assembling data related to the performance of the vehicle in coordination with each such loading location, the system comprising:

a device at each loading location providing a unique code;

means on-board the vehicle for interrogating the device and retrieving the unique code in conjunction with the vehicle being at the loading location;

a weighing device for sensing the weight of the load carried by the vehicle and generating weight data indicative thereof; and